Work Orde June-12-13 9:1		2928		*102	9928*							Page 1
Item ID: Revision ID:	D3953-7		A	Accept	*N900	040	100)*	Setup	Start Stop		S1*
Item Name: Start Date: Required Date: Reference:	Spring Spacer 6/11/13 6/11/13	Start Qty: 24.00 Req'd Qty: 24.00	*24* *24*		Cust Item I Customer:	D:					*N:	S2*
Approvals:		n: <u>ML</u> 5	Date:/3-06-13	Tooling: SPC (Y/N):		ate:			Run	Start Stop		R1* R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rejo Qty		Reject Number	Insp. Stamp
Draw Nbr	Revi	sion Nbr										
D3953	С											
100				0.00	SS 13-	06-14		24		2		,
Hardinge CNC Lath	ne Small	Memo TURN AS P FOLIO REV DWG REV:		0.00								
		DEBURR			ā							1
*110		QC2- Inspect parts off m	achine FAI/FAIB	0.00				24	æ	'		
QC Quality Control		Мето		0.00	S\$ 137	06-16			_ ~			

DQA:			Date:											™ ∆ÅDT
QA Closed:			Date:			WORK ORDER NON	-C(ONFO	RMANCE / UPDATE	W	ork Order u	odate only	Γ	AEROSPACE
Morle Orde						DISPOSITION	·		AGAINS	ΓDE	PARTMENT	/PROCESS	<u> </u>	
Work Orde	er:				1	Daa.l.	1		Children Constant		1	38/]
Part N	No.					Rework Scrap			Skid-tube Crosstube Machining Small Fal	<u> </u>	Pro	Water Jet d. Eng. Coor.	-	Engineering Quality
raiti	···—					Use-as-is	1	1	noforming Finishing	_	4	re/Packaging		Other
NCR N	No.					Suspected Unapproved		111011	Large Fab Composite	-	1100/5101	Supplier	_	
							3			<u> </u>	1	, , ,	-	
Root					Desci	ription of work order update	I	Initial	Action		Sign &			
Cause	!	Date	Step	Qty		or non-conformance	Ch	nief _, Eng	Description		Date	Verificatio	n	QC Inspector
Design	Ш													
Doc/Data														
Equip/Tooling														
Handling/Pre	Ш						1							
Material														
Operator	Ш						1							
Offset/Setup	Щ													
Process														
Supplier							l		:					
Training														
Transport							Ì							
Unapproved							<u> </u>							
							FAI	ULT CAT	TEGORY			 		
Landi	ng Gea	r .			_	General		,			-	,		,
	Be	nding				Bend	L	1	Program		Outside Dim	ensions	L	Pressure/Forced
	Ce	ntre No	t Concer	ntric		BOM/Route	L	Grain			Over/Under	tolerance	匚	Set-up
	Cri	acks				Broken/Damage/Defect	L	Hardwa	are	L	Part Incorred	ct	L	Temperature/Cure
	Cri	mp/Kin	k/Ripple,	/Wave		Burrs	L	Inspect	ion Incomplete/Unqualified	L	Part Lost/Mi	ssing		Weld
	Cu	ffs				Contamination	L	Instruct	tions Incomplete/Unclear	L	Part Moved			Wrong Stock Pulled
	Cri	ushing				Countersink		Misalig	gned/off center		Positioned V	Vrong		_
	He	at Trea	t			Cut Too Short		Mislabe	eled		Power Loss/	Surge		Other
	Ins	pection	Strip in	Tube		Drawing		Misread	d					
	М	arks/Ch	atter			Drill Holes		Off-set						
	Tu	rning Se	equence			Finish		Out of 0	Calibration					
	\M/:	iwT\ave	st in Tuh	۵		Fit/Function		Out of	Soguence					

102928

Page 2

June-12-13 9:16:54 AM D3953-7 Accept Item ID: *N900040100* Setup Start **Revision ID:** Item Name: Spring Spacer Start Qty: 24.00 **Start Date:** 6/11/13 **Cust Item ID:** Req'd Qty: 24.00 Required Date: 6/11/13 **Customer:** Reference: Run Process Plan: Date: ' Tooling: Date: Approvals: Stop SPC (Y/N): OC: Date: Date: Reject Reject Sequence ID/ Operation Tool ID Tool # Plan Set Up/ Accept Insp. Work Center ID Description Qty **Run Hours** Code Qty Number 120 QC8- Inspect parts - second check 0.00 13.6-16_ *120* QC 0.00 Memo Quality Control Identify as per dwg & Stock Location: 130 *120* Packaging 0.00 Memo Packaging 140 QC21- Final Inspection - Work Order Release 0.00 *140* 0.00 Memo Quality Control

DQA:			Date:			MODIC ORDER NON	~	NEO!	DAAANCE / 11	IDDATE			*DART
QA Closed:			Date:			WORK ORDER NON-	-C(JNFOI	RIVIANCE / U		Vork Order u	odate only	AEROSPACE
Morle Orde						DISPOSITION				AGAINST D	EPARTMENT	/PROCESS	,
Work Orde	er: —			<u> </u>		Rework	,		Skid-tube	Crosstube	7	Water Jet	Engineering
Part I	No					Scrap			Machining	Small Fab	- Pro	d. Eng. Coor.	Quality
raiti	' 0					Use-as-is			noforming	Finishing	_	re/Packaging	Other
NCR I	Vo.					Suspected Unapproved		, mein	Large Fab	Composite		Supplier	† * * * * * * * * * *
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Root					Desci	ription of work order update		nitial	Ac	tion	Sign &		
Cause	\	Date	Step	Qty		or non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Design													
Doc/Data													
Equip/Tooling													
Handling/Pre													
Material						•							
Operator													
Offset/Setup	Ш												
Process	Ш												
Supplier	Ш												
Training													
Transport	Ш												
Unapproved													
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Landi	ng Ge	ar				General				_			-
	∐В	ending				Bend		Folio/P	rogram		Outside Dim	ensions	Pressure/Forced
	\square^{c}	entre No	ot Concer	ntric		BOM/Route		Grain			Over/Under	tolerance	Set-up
	Щc	racks				Broken/Damage/Defect	L	Hardwa	re	<u> </u> _	Part Incorre	ct	Temperature/Cure
	Щc	rimp/Kir	nk/Ripple	/Wave		Burrs	L	Inspecti	ion Incomplete/U	Inqualified	Part Lost/Mi	issing	Weld
	Щċ	uffs			L	Contamination		Instruct	ions Incomplete/	'Unclear	Part Moved		Wrong Stock Pulled
	L C	rushing				Countersink		Misalig	ned/off center	ļ	Positioned V	Vrong	_
	Ш⊦	leat Trea	it			Cut Too Short		Mislabe	eled		Power Loss/	Surge	Other
	∐"	nspection	n Strip in	Tube		Drawing	L	Misread	t				
	\square	/larks/Ch	atter			Drill Holes		Off-set					
	Т	urning S	equence			Finish		Out of (Calibration				
	V	Vave/Tw	ist in Tub	e		Fit/Function		Out of 9	Sequence				

June-12-13 9:16:54 AM

Work Order ID:

102928

Parent Item:

D3953-7

Parent Item Name:

Spring Spacer

Start Date: 6/11/13

Required Date: 6/11/13

Start Qty: 24.00

Required Qty: 24.00

Comments:

IPP RevA: New issue DD verified by:EC

IPP Rev:B as per dwg revC DD 10.03.02

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MDELRINR0.750		Purchased	No			100	f	107.2960	0.05	1.2631584	D	/	
Delrin Round Bar 0.75"						Ţ				142'	11	13-06	·- 1 G
				Location		Loc Oty	<u>Lo</u>	c Code					
				MAT018		107.296							i,
				116	5183	4.8							

117273

117322

121783 124834

124957

Material Not Palled

1,042

4.665

0.94 27.49

40

29.401

DQA:			Date: _			-							,	™∩∆PT
						WORK ORDER NON	-C(ONFO	RMANCE / UF			-		AEROSPACE
QA Closed:			Date:						···	V	Vork Order up	odate only		· · · · · · · · · · · · · · · · · · ·
Work Orde	r·					DISPOSITION				AGAINST D	EPARTMENT,	/PROCESS		
WOIR OTUC	' -					Rework]		Skid-tube	Crosstube	7	Water Jet	\neg	Engineering
Part N	ο.					Scrap			Machining	Small Fab	Pro	d. Eng. Coor.	┪	Quality
	_					Use-as-is			noforming	Finishing	_	re/Packaging	╗	Other
NCR N	o					Suspected Unapproved			Large Fab	Composite		Supplier		
								<u> </u>						
Root					Desc	ription of work order update	1	Initial	Acti		Sign &			
Cause	_	Date	Step	Qty	•	or non-conformance	Ch	ief Eng	Descri	iption	Date	Verification	1	QC Inspector
Design	_													
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Equip/Tooling	4													
Handling/Pre														
Material	긕											ļ		
Operator Offset/Setup	\dashv										`			
Process	\dashv													
Supplier	\dashv													
Training	\dashv												ļ	
Transport	\neg										•			
Unapproved	╗													
							FA	ULT CAT	EGORY					
Landin	g Ge	ear				General		_				_		
		Bending				Bend		Folio/P	rogram		Outside Dim	ensions		Pressure/Forced
	\Box	entre No	ot Concen	ıtric		BOM/Route	L	Grain			Over/Under	tolerance	_	Set-up
		Cracks				Broken/Damage/Defect	L	Hardwa	re		Part Incorre	ct	_	Temperature/Cure
		-	nk/Ripple,	/Wave		Burrs	L	Inspecti	on Incomplete/Un	qualified	Part Lost/Mi	ssing	-	Weld
		Cuffs			<u> </u>	Contamination	L	4	ions Incomplete/U	Inclear	Part Moved	Ĺ		Wrong Stock Pulled
	\dashv	Crushing			<u> </u>	Countersink		1 -	ned/off center	<u> </u>	Positioned V			
	_	leat Trea			<u> </u>	Cut Too Short	_	Mislabe		Ĺ	Power Loss/	Surge [Other
	_		n Strip in	Tube	_	Drawing	<u> </u>	Misread	d .					
	\neg	Marks/Ch			\vdash	Drill Holes	\vdash	Off-set						
			equence		-	Finish	<u> </u>	4	Calibration					· · · · · · · · · · · · · · · · · · ·
	\	Nave/Tw	ist in Tub	e		Fit/Function		Out of S	Sequence					

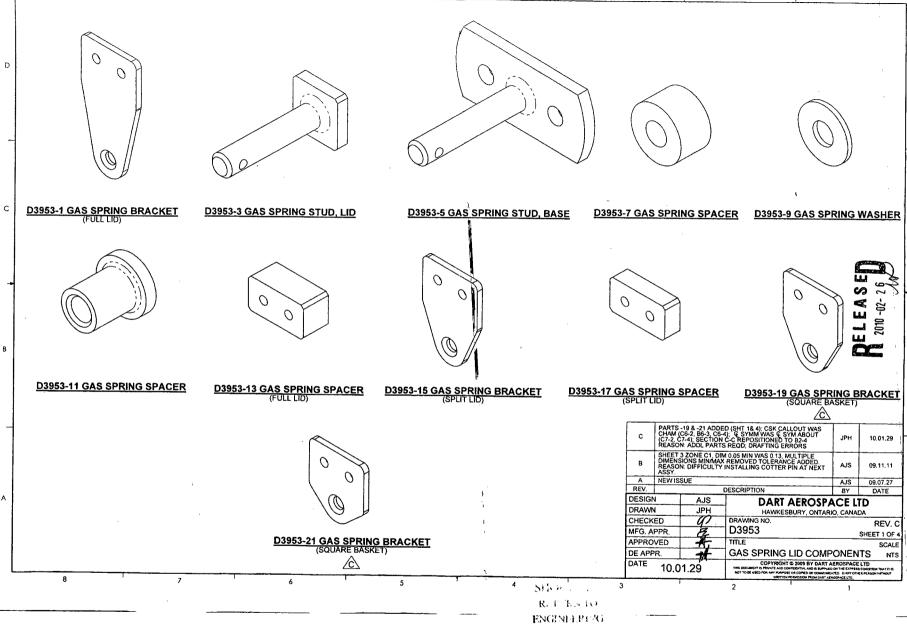
DART AEROSPACE LTD	Work Order:	102928
Description: Gas Spring Spacer	Part Number:	D3953-7
Inspection Dwg: D3953 Rev: C		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.63	+/-0.030	,633	1		5108	Vein
Ø0.257	+0.006/-0.001	.257				
0.37	+0.000/-0.030	.633 .257 .355	V		V	
					. '	
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		,				
	21		(DAS			

$\mathcal{O}I$				
Measured by:	Audited by:	9-89	Preliminary Approval:	
Date: 13-06-16	Date:	13-6.16	Date:	

Rev	Date	Change	Revised by	Approved
Α	09.10.22	New Issue	KJ	
В	09.12.14	Dwg Rev updated .	KJ -	
С	10.06.07	Tolerance revised for dimension 0.37	KJ du	│ W



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SUBJECT TO ALIED DAENT

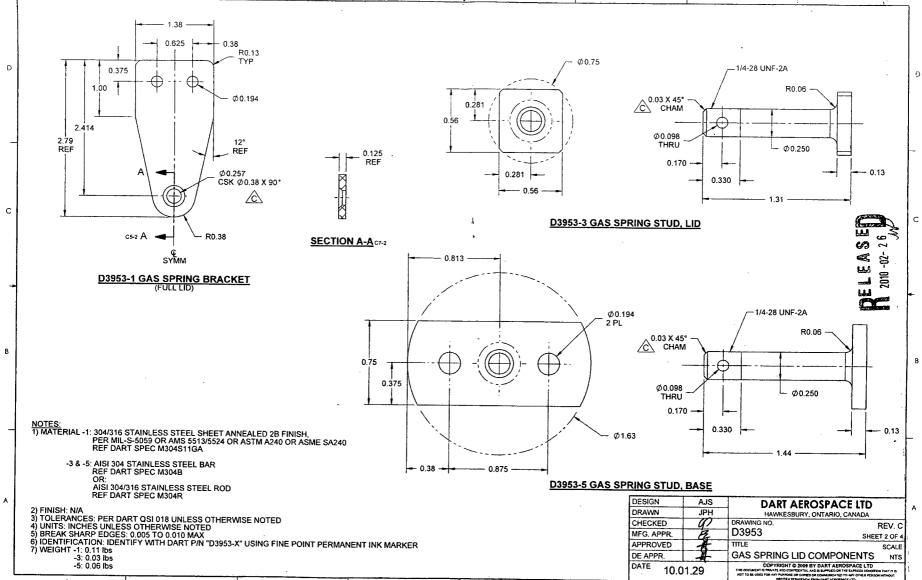
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WORK OKDER MCJ

13-06-13

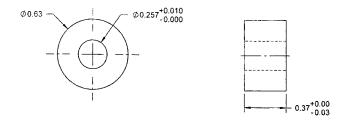
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102926 Ð R0.06 Ø0.250 - 0.13 1.31 \$ co. ш Ø ~ € 29 2010 ____ -1/4-28 UNF-2A R0.06 Ø0.250 - 0.13 DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA

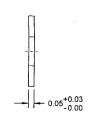


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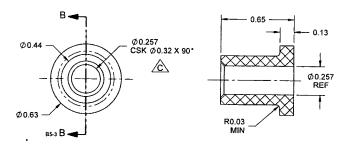


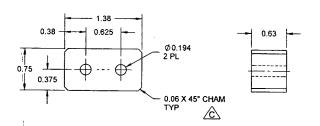
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D3953-7 GAS SPRING SPACER

D3953-9 GAS SPRING WASHER





D3953-11 GAS SPRING SPACER

SECTION B-B 87-3

D3953-13 GAS SPRING SPACER

NOTES: 1) MATERIAL -7,-9 & -11: DELRIN II 150E OR ACETRON GP ACETAL, BLACK REF DART SPEC M-DELRIN-R

-13: AISI 304 STAINLESS STEEL BAR REF DART SPEC M304B

2) FINISH: N/A

Α

- 2) FINISH: N/A
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 6) IDENTIFICATION -13 ONLY: IDENTIFY WITH DART P/N "D3953-13" USING FINE POINT PERMANENT INK MARKER
 7) IMPERIOR T. J. (2) 11 12 C O O I INC EACH 7) WEIGHT -7/-9/-11: < 0.01 lbs EACH -13: 0.17 lbs

DESIGN AJŞ DART AEROSPACE LTD DRAWN JPH HAWKESBURY, ONTARIO, CANADA CHECKED 4 REV. C D3953 MFG. APPR. SHEET 3 OF 4 APPROVED TITLE SCALE GAS SPRING LID COMPONENTS DE APPR.

2010 -02- 26

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